

What is claimed is:

1. A liquid crystal display (LCD) device comprising:

first and second substrates assembled together with some space therebetween, at

5 least one substrate having an etched outer surface; and

a passivation film outside the first and second substrates, wherein the passivation film is formed of a material having a refractive index within about 10% difference of the refractive index of at least one of the first and second substrates.

10 2. The LCD device as claimed in claim 1, wherein at least one of the first and second substrates includes glass.

15 3. The LCD device as claimed in claim 1, wherein the passivation film is an organic film.

4. The LCD device as claimed in claim 3, wherein the organic film includes one of BenzoCycloButene (BCB) and photo-acrylate.

20 5. An LCD device comprising:

first and second etched substrates;

a liquid crystal layer between the first and second etched substrates; and

25 a passivation film outside the first and second etched substrates, wherein the passivation film is formed of a material having a refractive index within about 10% difference of the refractive index of at least one of the first and second etched substrates.

6. The LCD device as claimed in claim 5, wherein at least one of the first and second etched substrates includes glass.

7. The LCD device as claimed in claim 5, wherein the passivation film is an organic
5 film.

8. The LCD device as claimed in claim 7, wherein the organic film includes one of BenzoCycloButene (BCB) and photo-acrylate.

9. A method for manufacturing an LCD device, comprising:
10 preparing first and second substrates;
assembling the first and second substrates;
etching a surface of at least one of the first and second substrates to form a thin
substrate; and
15 forming a passivation film on an entire surface of the first and second substrates,
wherein the passivation film is formed of a material having a refractive index difference
within about 10% of the refractive index of at least one of the first and second substrates is.

10. The method as claimed in claim 9, wherein at least one of the first and second
20 substrates includes glass.

11. The method as claimed in claim 9, wherein the passivation film is an organic
film.

25 12. The method as claimed in claim 11, wherein the organic film is formed by a spin
coating process.

13. The method as claimed in claim 11, wherein the organic film includes one of BenzoCycloButene (BCB) and photo-acrylate.

5 14. The method as claimed in claim 9, further comprising injecting a liquid crystal between the first and second substrates, after forming the passivation film on the surface of the first and second substrates.

10 15. The method as claimed in claim 9, further comprising injecting a liquid crystal between the first and second substrates, after assembling the first and second substrates with each other.

15 16. The method as claimed in claim 9, further comprising polishing the surface of the first and second substrates after etching a surface of at least one of the first and second substrates.

17. The method as claimed in claim 16, wherein polishing includes mechanically polishing the assembled substrates while spraying coolant on the assembled substrates.

20 18. The method as claimed in claim 17, wherein mechanically polishing includes polishing with sandpaper.

19. The method as claimed in claim 17, wherein mechanically polishing includes polishing with a polisher.

20. The method as claimed in claim 9, wherein the etching includes dipping the substrate into an etchant.

21. The method as claimed in claim 20, wherein the etchant is an HF solution.

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22. The method as claimed in claim 20, wherein the etching includes etching the glass substrate by exothermic reaction between the glass substrate and the etchant.

23. The method as claimed in claim 9, wherein assembling the first and second substrates with each other includes a sealing pattern.

10 24. A liquid crystal display (LCD) device, comprising:

15 first and second substrates;
a liquid crystal layer between the first and second substrates; and
a passivation film on the surfaces of the first and second substrates, wherein the passivation film is formed of a material in which a refractive index difference of the first and second glass substrates is within about 10%.

25. The liquid crystal display as claimed in claim 24, wherein the substrates include

20 glass.

26. The liquid crystal display as claimed in claim 25, wherein the passivation film is an organic film.

25 27. The liquid crystal display as claimed in claim 26, wherein the organic film includes one of BenzoCycloButene (BCB) and photo-acrylate.

28. The liquid crystal display as claimed in claim 24, further comprising a gate electrode and source and drain electrodes on the first substrate.

5 29. The liquid crystal display as claimed in claim 25, further comprising a sealing pattern formed between the first and second substrates.